RadioShack®

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900 MHz Digital Spread Spectrum Dual-Keypad Cordless Speakerphone

with Caller ID/Call Waiting Deluxe

Owner's Manual

Please read before using this equipment.

❒ *Important Information*

This phone has been tested and found to comply with all applicable UL and FCC standards.

WARNING: To reduce the risk of fire or shock hazard, do not expose this product to rain or moisture.

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that might be of sufficient magnitude to constitute a risk of electric shock. Do not open the product's case.

This symbol is intended to inform you that important operating and maintenance instructions are included in the literature accompanying this product.

IMPORTANT CALLER ID INFORMATION

To use the phone's Caller ID and Call Waiting with Caller ID features, you must be in an area where those services are available and you must subscribe to those services through your local phone company. Where Caller ID is offered, one or more options are generally available:

- caller's number only
- caller's name only
- caller's name and number.

READ THIS BEFORE INSTALLATION

We have designed your phone to conform to federal regulations, and you can connect it to most telephone lines. However, each phone (and each device, such as a telephone or answering machine) that you connect to the telephone line draws power from the telephone line. We refer to this power draw as the device's ringer equivalence number, or REN. The REN is on the bottom of your phone.

If you use more than one phone or other device on the line, add up all of the RENs. If the total is more than five (or three in rural areas), your telephones might not ring. If ringer operation is impaired, remove a device from the line.

Your phone complies with Part 68 of *FCC Rules*. You must, upon request, provide the FCC registration number and the REN to your telephone company. Both numbers are on the bottom of your phone.

Note: You must not connect your phone to:

- coin-operated systems
- party-line systems
- most electronic key telephone systems

Important:

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- Cordless phones such as this one require AC power to operate. When the AC power is off, you cannot dial out or receive incoming calls using your phone. For this reason, the phone should not be your only telephone. To be safe, you should also have a phone that does not require AC power to operate (not a cordless phone) so you can still make and receive calls if there is an AC power failure.

- Some cordless phones operate at frequencies that might cause interference to nearby TVs and VCRs. To minimize or prevent such interference, the base of the cordless phone should not be placed near or on top of a TV or VCR.

- Your cordless phone operates on standard radio frequencies, as allocated by the FCC. Even though your phone's access protection code prevents unauthorized use of your phone line, it is possible for other radio units operating on similar frequencies within a certain area to unintentionally intercept your conversations and/or cause interference. This possible lack of privacy can occur with any cordless phone.

THE FCC WANTS YOU TO KNOW

In the unlikely event that your phone causes problems on the phone line, the phone company can temporarily discontinue your service. If this happens, the phone company attempts to notify you in advance. If advance notice is not practical, the phone company notifies you as soon as possible and advises you of your right to file a complaint with the FCC.

Also, the phone company can make changes to its lines, equipment, operations, or procedures that could affect the operation of this telephone. The telephone company notifies you of these changes in advance, so you can take the necessary steps to prevent interruption of your telephone service.

LIGHTNING

Your telephone has built-in protection circuits to reduce the risk of damage from surges in telephone line and power line current. These protection circuits meet or exceed the FCC requirements. However, lightning striking the telephone or power lines can damage your telephone.

Lightning damage is not common. Nevertheless, if you live in an area that has severe electrical storms, we suggest that you unplug your phone when storms approach to reduce the possibility of damage.

FCC STATEMENT

The phone complies with the limits for a Class B digital device as specified in Part 15 of *FCC Rules*. These limits provide reasonable protection against radio and TV interference in a residential area. However, your equipment might cause TV or radio interference even when it is operating properly. To eliminate interference, you can try one or more of the following corrective measures:

- Reorient or relocate the receiving antenna.

- Increase the distance between the equipment and the radio or TV.

- Use outlets on different electrical circuits for the equipment and the radio or TV.

Consult your local RadioShack store if the problem still exists.

IMPORTANT SAFETY

INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Never install telephone wiring during a lightning storm.
4. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
5. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
6. Use caution when installing or modifying telephone lines.
7. Do not fix the AC power supply cord to building surfaces with metal fittings (If the product has an AC power cord).
8. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
9. Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool.
10. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
11. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation unless proper ventilation is provided.
12. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your local power company.
13. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be stepped on.
14. Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
15. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
16. To reduce the risk of electric shock, do not disassemble this product. Take it to a qualified serviceman when service or repair work is required. Opening or removing covers may expose you to dangerous voltage or other risks. Incorrect reassembly can cause electric shock when the product is subsequently used.
17. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - When the power cord plug is damaged or frayed.

- If liquid has been spilled into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
- If the product has been dropped or the cabinet has been damaged.
- If the product exhibits a distinct change in performance.

18. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lightning.
19. Do not use the telephone to report a gas leak in the vicinity of the leak.

BATTERY SAFETY INSTRUCTIONS

CAUTION: TO REDUCE THE RISK OF FIRE OR INJURY, READ AND FOLLOW THESE INSTRUCTIONS.

1. Use only the appropriate type and size of battery pack specified in the instruction manual provided for this product.
2. Do not dispose of the battery pack in a fire. The cell may explode. Check with local codes for possible special disposal instructions.
3. Do not open or mutilate the battery pack. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling the battery pack in order not to short it with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.
5. Charge the battery pack provided with or identified for use with this product only in accordance with the instructions and limitations specified in this owner's manual.
6. Observe proper polarity orientation between the battery pack and the battery charger.

SAVE THESE INSTRUCTIONS

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❒ Features

Your RadioShack 900 MHz Digital Spread Spectrum Speakerphone uses the most advanced cordless telephone technology to give you superior audio quality and extended range.

The phone's Caller ID records each caller's telephone number (and name, if available in your area) and the date and time of the call, as provided by your local phone company to Caller ID service subscribers.

If you subscribe to Call Waiting with Caller ID, the phone shows you the incoming caller information, even when you are already on the phone.

Your phone has these features:

Caller ID/Call Waiting Deluxe — gives you several options for handling waiting callers (you must subscribe to the Call Waiting Options Service through your phone company to use this feature).

900 MHz Operation — provides longer range and less interference than many other cordless phones.

Spread Spectrum Technology — spreads the signal across several frequencies, providing additional security for your phone conversations.

Caller ID Memory — stores up to 50 Caller ID records.

Dual Keypad — a full set of keys on both the handset and base let you use either keypad to operate the phone.

Speakerphone — lets you make or answer calls without using the handset.

3-Line Liquid Crystal Display — lets you view an entire Caller ID record on one screen.

30-Number Memory Dialing — lets you store up to 30 numbers (20 in the handset and 10 in the base) in memory for easy dialing.

Two-Way Intercom/Paging System — lets you send a signal from the base to the handset, or from the handset to the base, to page someone or locate the handset when it is away from the base. If someone answers, you can use the phone as an intercom.

Auto Talk — lets you set the handset so you can answer a call by simply lifting the handset from the base or by pressing any key when the handset is away from the base.

Headset Jack — lets you connect an optional headset (available from your local RadioShack store) for hands-free convenience.

Volume Control — lets you adjust the volume you hear through the handset and the base.

Adjustable Ringers — you can set different volumes for the handset and base ringers.

Ample Talk and Standby Time — the supplied battery (when fully charged) provides about 6 hours of talk time or 7 days of standby time.

20 Channels — automatically selects a clear channel when you make or answer a call.

Security Access-Protection Code — automatically prevents other cordless phone users from using your phone line while the handset is off the base.

Redial — lets you quickly redial any of the three last numbers dialed on the handset and the last number dialed on the base.

Tone/Pulse Dialing — lets you use either type of service.

Hearing-Aid Compatibility — lets you use your phone with hearing aids that have a T (telephone) switch.

❒ Installation

MOUNTING THE PHONE

You can place the phone's base on a desk or table, mount it on a standard wall plate, or mount it directly on a wall. Choose a location that is:

- near an AC outlet
- near a modular telephone line jack
- out of the way of normal activities
- away from electrical machinery, electrical appliances, metal walls or filing cabinets, wireless intercoms, alarms, and room monitors
- away from other cordless phones

The base's location affects the phone's range. If you have a choice of several locations, try each to see which provides the best performance.

Cautions:

You must use a Class 2 power source that supplies 9V AC and delivers at least 350 mA. Its center tip must be set to positive and its plug must fit the phone's **DC IN 9V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the phone or the adapter.

- Always connect the AC adapter to the phone before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the phone.

Your telephone connects directly to a modular telephone line jack. If your telephone wiring does not have a modular jack, you can update the wiring yourself using jacks and adapters (available at your local RadioShack store), or have the telephone company update the wiring for you. You must use compatible modular jacks that are compliant with Part 68 of *FCC Rules*.

Note: The USOC number of the jack to be installed is RJ11C (or RJ11W for a wall plate jack).

On a Desk Top, Shelf, or Table

1. Insert the bracket's tabs into the base's upper tab slots, then press down on the bracket's clips and insert them into the clip slots.
2. Plug one end of the supplied long modular cord into the **TEL LINE** jack on the back of the base and route the cord through the strain relief hook on the bracket.
3. Plug the modular cord's other end into a modular telephone line jack.
4. Insert the supplied AC adapter's barrel plug into the **DC IN 9V** jack on the back of the base.
5. Route the adapter's cord through the strain relief slot on the bottom of the base.
6. Plug the adapter into a standard AC outlet.
7. Lift the base's antenna to a vertical position.

On a Wall Plate or Wall

1. Insert the bracket's tabs into the base's lower tab slots, then press down on the bracket's clips and insert them into the clip slots.

2. Plug one end of the supplied short modular cord into the **TEL LINE** jack on the back of the base.

3. Insert the supplied AC adapter's barrel plug into the **DC IN 9V** jack.

4. Route the adapter cord through the groove on the bracket.

5. Plug the modular cord's other end into the wall plate jack, then align the bracket's keyhole slots with the wall plate studs and slide the phone downward to secure it.

6. Plug the adapter into a standard AC outlet.

7. Lift the base's antenna to a vertical position.

Note: To mount the phone directly on a wall, you need two screws (not supplied) with heads that fit into the keyhole slots on the bottom of the base.

Follow the steps under "On a Wall Plate or Wall", then apply these additional instructions.

1. Drill two holes $3^{15}/_{16}$ inches (100 mm) apart. Then thread a screw into each hole, letting the heads extend about $^{1}/_{8}$ inch (3 mm) from the wall.

2. Plug one end of the supplied long modular cord into the **TEL LINE** jack on the back of the base and route the adapter cable and modular cords through the grooves on the bracket.

3. Align the bracket's keyhole slots with the mounting screws and slide the phone downward to secure it.

CONNECTING, CHARGING, AND REPLACING THE BATTERY PACK

The phone comes with a rechargeable nickel-cadmium (Ni-Cd) battery pack in the handset. Before using your phone, you must connect the battery pack, then charge it for about 24 hours.

1. Press down and slide off the battery pack compartment cover.

2. Lift the battery pack out of the compartment.

3. Plug the battery pack's connector into the socket in the compartment, (the connector fits only one way), replace the battery pack, and replace the cover.

To charge the battery pack, place the handset either faceup or facedown on the base.

The CHARGE/IN USE indicator on the base lights and **Total:00** appears.

Important: Be sure the battery pack is properly connected before you try to charge it. The CHARGE/IN USE indicator lights when the handset is on the base even if the battery pack is not properly connected.

Recharge the battery pack when **Low Battery** flashes.

Notes:

- When you first use the phone after charging or recharging the battery pack, the phone might not work and you might hear a beep when you press **TALK**. Return the handset to the base for about 5 seconds to reset the security access-protection code.

- If the handset or the base loses power, the security access-protection code might be lost. To reset the code, return the handset to the base for about 5 seconds.

- Using a pencil eraser, clean the charging contacts on the handset and base about once a month.

- If the battery pack becomes weak during a call, the handset beeps every 3 seconds and **Low Battery** flashes. When this happens, you cannot make a call until you recharge the battery pack.

- About once a month, fully discharge the battery by keeping the handset off the base until **Low Battery** flashes. Otherwise, the battery pack loses its ability to fully recharge.

- If the display is blank and the phone does not work, recharge the battery pack. (The battery power might be too low to light the display.)

- If you are not going to use your phone for an extended period of time, disconnect the battery pack. This increases the battery pack's usable life.

The supplied battery pack should last about a year. If the battery pack does not hold a charge for more than 2 hours after an overnight charge, replace it with a new 3.6-volt, 600 mAh battery pack with a connector that fits the socket in the battery compartment. You can order a replacement battery pack through your local RadioShack store. Install the new battery pack and charge it for about 24 hours.

Warning: Dispose of the old battery pack promptly and properly. Do not burn or bury it (see “Battery Safety Instructions” on Page 5 for additional information on proper battery handling).

If you have trouble replacing the battery pack, take the phone to your local RadioShack store for assistance.

Important: The EPA certified RBRC® Battery Recycling Seal on the nickel-cadmium (Ni-Cd) battery indicates RadioShack is voluntarily participating in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cd batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-THE-SHACK (1-800-843-7422) for information on Ni-Cd battery recycling and disposal bans/restrictions in your area. RadioShack’s involvement in this program is part of the company’s commitment to preserving our environment and conserving our natural resources.

SETTING THE DIALING MODE

Your phone comes set for tone dialing. If you have pulse service, you need to change the dialing mode. If you are not sure which type of service you have, do this test.

Press **SPEAKER** and listen for a dial tone. Press any number other than **0**.

Note: If your phone system requires that you dial an access code (9, for example) before you dial an outside number, do not press the access code either.

If the dial tone stops, you have touch-tone service. If the dial tone continues, you have pulse service.

To set the dial mode, press **SPEAKER** to hang up the phone if necessary. Then, on the base keypad, hold down **FLASH**. until the phone beeps, then press # to set to pulse

mode or * to set to tone mode. The phone beeps.

Note: The phone exits setting mode if a call is received, or if you press **SPEAKER**.

SETTING THE RINGER TONE/VOLUME

You can select one of four different ringer tone/volume settings on the handset. At any time, except during a call, repeatedly press **VOL/CID** ▲ or ▼ to select the desired ringer setting. Each time you press a button, the phone rings at the selected setting and **Ringer A High**, **Ringer A Low**, **Ringer B High**, or **Ringer B Low** appears.

You can also turn off the ringer. At any time, except during a call, press and hold **VOL/CID** ▼ until the phone beeps and **Ringer Off** appears. When you place the handset faceup on the base, **<Ringer Off>** appears.

You can make or receive a call even when the ringer is turned off. When you have an incoming call, any other phone connected to the same line rings, and **Incoming Call** appears.

To turn the ringer back on, simply press **VOL/CID** ▲ or ▼. The ringer is restored at the **Ringer A High** setting.

To set the base's ringer volume, at any time except during a call, repeatedly press **RING** on the base until you get the desired setting — high, low, or off. At off setting, the RINGER OFF indicator lights.

Note: When you set the base's ringer off, the base (and the handset if it is on the base) does not ring but another phone connected to the same line rings. If the handset is away from the base, the handset also rings (unless you set the handset's ringer off).

TURNING AUTO TALK ON/ OFF

Your phone is preset so you must press **TALK** when you lift the handset from the base to answer a call. With auto talk turned on, you can answer a call by just lifting the handset from the base. If the handset is away from the base, you can answer by pressing any key.

Follow these steps to turn auto talk on or off.

1. Lift the handset and press **MENU**. A menu appears with **Auto Talk** selected.
2. Press **SELECT/INTCM** to change the auto talk setting. **On** or **Off** appears indicating the selected setting.
3. Return the handset to the base or press **MENU** to store the new setting.

TURNING CALLER ID/CALL WAITING ON/OFF

If you subscribe to Call Waiting with Caller ID service, you can set the phone to show Caller ID information for an incoming call even while you are using the phone.

Follow these steps to turn the Caller ID/ Call Waiting feature on or off.

1. Lift the handset and press **MENU**. A menu appears with **Auto Talk** selected.
2. Press **2** or **VOL/CID** ▼ to select **CIDCW** (Caller ID/Call Waiting).
3. Press **SELECT/INTCM** to change the Caller ID/Call Waiting setting. **On**, **Off**, or **Opt** appears.
4. Press **MENU** then return the handset to the base to store the new setting.

With the **Opt** setting, you can use the advanced Caller ID/Call Waiting options. See “Call Waiting Options Service” on Page 21.

STORING YOUR AREA CODE

You can store your local area code in the phone’s Caller ID record so it does not show the area code if the received call is from your local area. If you need to dial the area code (or store it in the memory), you can add it afterwards. See “Adding/Deleting the Area Code” on Page 23.

Note: If your calling area requires 10-digit dialing including area code, do not enter the area code but leave this option blank.

Follow these steps to store your area code.

1. Lift the handset and press **MENU**.
2. Press **3** or **VOL/CID** ▼ twice to select **Area Code**.
3. Press **SELECT/INTCM**, then enter your three-digit area code. If you make a mistake, repeatedly press ◀ or ▶ to move the cursor over the incorrect digit, then enter the correct number.

   Note: If an area code is already stored, it appears on the display. To delete the area code, press **DELETE/CH** three times. Then enter your area code. Or you can use ◀ or ▶ to move the cursor and edit the area code.
4. Press **SELECT/INTCM** to store the area code, then press **MENU** or return the handset to the base to clear the display.

❒ *Operation*

MAKING AND RECEIVING CALLS USING THE HANDSET

To make a call, lift the handset and press **TALK**. Talk and the current volume setting (see "Adjusting the Handset Volume") appear on the handset's display, and the CHARGE/IN USE indicator on the base lights. Then dial the number. The number displays on the handset as you dial, then the call's elapsed time displays.

You can also dial the number before you press **TALK**. If you make a mistake, press **DELETE/CH** until the incorrect entry is erased, then enter the correct number. To delete the entire number, hold down **DELETE/CH** for at least 2 seconds.

When you receive a call, **Incoming Call** appears on the display. To answer it, lift the handset from the base and press **TALK**. If auto talk is on, just lift the handset from the base or press any key. **Talk** and the current volume setting appear on the display.

To end a call, place the handset on the base or press **TALK**.

SELECTING THE CHANNEL

The phone has 20 channels. If the call seems to disconnect for no reason during a call, press **DELETE/CH** on the handset to select a different channel. **Scanning** appears while your phone searches for a clear channel.

ADJUSTING THE HANDSET VOLUME

To adjust the volume of the sound you hear through the handset during a call, press **VOL/CID** ▲ or ▼ until you obtain the desired volume level. **Volume Maximum**, **Volume High**, **Volume Medium**, or **Volume Low** appears on the display.

Once you set the volume level, the setting is maintained even after you hang up the phone.

Note: When you press **VOL/CID** ▲ while the volume is maximum or **VOL/CID** ▼ while the volume is low, the setting does not change and the phone beeps three times.

USING THE SPEAKERPHONE

To make or answer a call using the speakerphone, press **SPEAKER**. The SPEAKER indicator lights. When you hear a dial tone, dial the number using the base's keypad.

To set the speakerphone's volume, press **VOL** ▲ or ▼ on the base.

To end a speakerphone call, press **SPEAKER** again.

Switching Between the Handset and Speakerphone

To switch to the speakerphone while you are using the handset, press **SPEAKER** on the base. When you hear the conversation or dial tone on the speakerphone, press **TALK** on the handset.

To switch to the handset while you are using the speakerphone, simply lift the handset off the base. If the handset is away from the base, press **TALK**, then press **SPEAKER**.

Using Both the Handset and Speakerphone

If someone else is using the speakerphone, press **TALK** on the handset to join the conversation. If someone else is using the handset, press **SPEAKER** on the base to join the conversation.

During the call, one person can hang up and another person can continue the call at the other keypad. Or, both people can hang up at the same time to end the call.

Note: If you hear a high-pitched noise from the base's speaker, the handset and the base are too close together.

USING MUTE

While talking on the speakerphone, you can temporarily turn off the phone's microphone by pressing **MUTE** so the other party cannot hear you. The SPEAKER indicator flashes.

Press **MUTE** or **SPEAKER** to resume your conversation.

Note: If the phone is close to loud noises while you are using the speakerphone, the phone might not switch to let you hear the person on the other end of the line. If this happens, press **MUTE** to turn off the microphone so you can hear the caller. Press **MUTE** again to speak.

USING REDIAL

You can quickly dial any of the last three numbers you dialed recently on the handset. Lift the handset and repeatedly press **REDIAL** until the number you wish to dial displays. Then press **TALK** and the phone dials the number.

To dial the last number dialed using the base, press **SPEAKER** then **REDIAL/PAUSE**.

Notes:

- The redial memory for each keypad is separate. You cannot redial a number you dialed on the handset's keypad using **REDIAL/PAUSE** on the base's keypad, and vice versa.
- On the handset, you can also press **REDIAL** after pressing **TALK** to dial the last number dialed.
- The redial memory holds up to 32 digits, so you can redial long-distance as well as local numbers.
- The redial memory also holds pause entries. See "Entering a Pause" on Page 19.

USING FLASH

FLASH performs the electronic equivalent of a switchhook operation for special services, such as Call Waiting.

For example, if you have Call Waiting, press **FLASH** to answer an incoming call without disconnecting the current call. Press **FLASH** again to return to the first call.

Note: If you do not have any special phone services, pressing **FLASH** might disconnect the current call.

USING TONE SERVICES ON A PULSE LINE

Some special services, such as bank-by-phone, require tone signals. If you have pulse service, you can still use these special tone services.

Dial the service's main number. When the service answers, press **TONE/*****. Any additional numbers you dial are sent as tone signals.

When you hang up, the phone automatically resets to pulse dialing.

USING PAGE/INTERCOM

You can use the phone as a two-way pager and intercom between the base and the handset. This is useful if the handset is away from the base and you want to locate it, or if you want to converse with someone through the intercom.

To page the base from the handset, press **SELECT/INTCM**. **Paging Base** appears, and the base and handset ring. Press **SPEAKER** or **INTCM** on the base to answer the page. **Intercom** appears on the handset's display.

To page the handset from the base, press **INTCM** on the base. The handset and base ring, and **Paging** appears on the handset's display. Press **TALK** or **SELECT/INTCM** on the handset to answer the page. **Intercom** appears.

To end an intercom call, press **TALK** on the handset, press **SPEAKER** on the base, or hang up the handset.

If a call comes in during an intercom conversation, the base rings even if you set the base's ringer to off. Either the person at the base or the person at the handset can answer the call. Press **TALK** on the handset or **SPEAKER** on the base once to end the intercom call, then press **TALK** or **SPEAKER** again to answer the incoming call.

Transferring a Call Between the Handset and Base

You can use the phone's intercom feature to transfer a call between the handset and the base.

To transfer a call from the handset to the base, press **SELECT/INTCM**. The call is put on hold, and **Paging Base** and **Hold** appear.

When the person at the base answers, press **TALK**. The call is released from hold and transferred to the base.

To return to handset use, press **TALK** again.

To transfer a call from the base to the handset, press **INTCM** on the base. The call is placed on hold, and **Paging** and **Hold** appear on the handset's display. When the person with the handset answers, press **SPEAKER**. The call is released from hold and transferred to the handset. To return to base use, press **SPEAKER** again.

MEMORY DIALING

You can store up to 30 numbers in memory (20 in the handset's and 10 in the base's memory), then dial a stored number by pressing a memory location number.

You can also store a name with each number in the handset's memory.

Use the supplied memory directory sticker to record your stored numbers. Peel the backing from the sticker and attach it to the base's cradle.

Storing a Number in the Handset's Memory

Notes:

- The phone beeps five times and exits the storing process if you wait more than 20 seconds between each keypress.
- If you receive a call during memory entry, the phone exits the storing process.

Follow these steps to store a number in the handset's memory.

1. Lift the handset.
2. Hold down **MEM** until **Memory Store** and a list of memory location numbers appear.
3. Press a number (**01**–**20**) or repeatedly press **VOL/CID** ▲ or ▼ to choose a two-digit memory location. Precede a single digit location number with 0–01, 02, 03, and so on.
4. Press **SELECT/INTCM**. **Store Name** appears. If you do not want to enter a name, skip to Step 6.
5. To enter a name, use the number keys.

   Refer to the letters on the number keys to select the desired letter. Press the key once for the first letter in the upper case, press twice for the second letter in the upper case, and so on. To enter the lower case letter, press four times (or five times) to display the first letter in lower case, five or six times for the second letter, and so on.

   For example, to enter John: press **5** once; upper case **J** appears. Then press **6** six times; lower case **o** appears. Press **4** five times; lower case **h** appears. Finally, press **6** five times; lower case **n** appears.

   To enter two letters from the same key in a row, press **FLASH/** ▶ to move the cursor to the next position. For example to enter AB, press **2**; **A** appears. Then press **FLASH/** ▶, the cursor moves to the next position, then press **2** twice so **B** appears.

   To enter a space, press **FLASH/** ▶ twice without entering any character.

   To enter a number, repeatedly press the corresponding number key until the number appears.

   To enter special character, use **0**. Each time you press **0**, the following characters appear in this order:

   * # – & ( ) (space) 0

   If you make a mistake, use **REDIAL/** ◀ or **FLASH/** ▶ to move the cursor over the error, then enter the correct character, or press **DELETE/CH** to delete a character. To delete all characters, hold down **DELETE/CH** for at least 1 second.
6. Press **SELECT/INTCM**. **Store Number** appears.
7. Enter the phone number and any tone or pause entries (see "Using Tone Services On a Pulse Line" on Page 16 and "Entering a Pause" on Page 19).
8. Press **SELECT/INTCM**. The phone beeps and **Memorynn Stored** appears. After 2 seconds, **Memory Store** appears. Repeat Steps 3–8 to store more numbers.
9. When you finish, press **MEM**.

To replace a stored number, store a new one in its place.

Editing or Deleting a Number in the Handset's Memory

Follow these steps to edit or delete a memory number.

1. Lift the handset.
2. Hold down **MEM** until **Memory Store** and a list of memory location numbers appear on the display.
3. Choose a memory location (**01**–**20**) by pressing a number or by repeatedly pressing **VOL/CID** ▲ or ▼.
4. Press **SELECT/INTCM**. A menu appears with the three options listed below. Press **VOL/CID** ▲ or ▼ to highlight the desired option then press **SELECT/INTCM** to choose it.

   Edit Memorynn — edit the record as described in Steps 5 through 8 of "Storing a Number in the Handset's Memory".

   Delete Memorynn — the display prompts you to confirm the deletion. Press **VOL/CID** ▲ to move the cursor to **Yes**, then press **SELECT/INTCM** or **DELETE/CH**. The phone beeps, and **Memorynn Deleted** appears.

   Go Back — returns you to the list of memory numbers.

Storing a Number in the Base's Memory

Note: The phone beeps five times and the phone exits the storing process if you wait more than 20 seconds between each keypress.

1. Press **MEMORY**. The CHARGE/IN USE indicator blinks.
2. Enter the number (up to 20 digits) and any tone or pause entries (see "Using Tone Services On a Pulse Line" on Page 16 and "Entering a Pause").

Notes:

- The phone beeps five times and the phone exits the storing process if you enter more than 20 digits.
- Each tone or pause entry uses one digit of memory.

3. Press **MEMORY** again, then enter the memory location number (**0**–**9**) where you want to store the phone number. A tone sounds indicating that the number is stored.

To replace a number in the base's memory, simply store a new number in its place. To erase a memory number, press **MEMORY** twice, then press the memory location number (0–9) you want to erase. A tone sounds indicating that the memory location has been erased.

Entering a Pause

In some telephone systems, you must dial an access code (9, for example) and wait for a second dial tone before you can dial an outside number. You can store the access code with the phone number. However, you should also store a pause after the access code to allow the outside line time to connect. To enter a 2-second pause, press **PAUSE** (**REDIAL/PAUSE** on the base). **P** appears on the display if you are storing a number into the handset's memory. You can add more pause entries for a longer pause.

Reviewing the Handset's Memory Numbers

To review your handset's memory numbers, press **MEM**. The list of memory location numbers (**01**–**20**) appears with the name stored

with each number (or **<Memorynn>** if you did not store a name).

To see the stored phone numbers, press ▶. An arrow to the right of the number means it is longer than 13 digits. Press ▶ again to see the rest of the number. Repeatedly press ◀ to return to the name display.

To exit the memory number list, press **MEM**.

To see a stored name and phone number at the same time, press **SELECT/INTCM** when the cursor is by a memory location number. To exit this display, hold down **DELETE/CH** until the display clears.

Dialing a Memory Number

To dial a number stored in the handset's memory, lift the handset and press **MEM**. The list of memory location numbers appears. Choose a memory location (**01**–**20**) by pressing a number or by repeatedly pressing **VOL/CID** ▲ or ▼, then press **TALK**.

To dial a number stored in the base's memory, press **SPEAKER**. When you hear a dial tone, press **MEMORY**, then press the memory location number for the number you want to dial.

Note: If you select an empty memory location, the base beeps.

Chain-Dialing Service Numbers

For quick recall of numbers for special services (such as bank by phone), store each group of numbers in its own memory location. Dial the service's main number first. Then, at the appropriate place in the call, press **MEM** (**MEMORY** on the base) and the number for the location where the additional information is stored.

Testing Stored Emergency Numbers

If you store an emergency service's number (police department, fire department, ambulance) and you choose to test the stored number, make the test call during the late evening or early morning hours to avoid peak demand periods. Also, remain on the line to explain the reason for your call.

USING A HEADSET

You can talk with handsfree convenience using an optional headset that has a $^{3}/_{32}$–inch (2.5-mm) plug. Contact your local RadioShack store for a suitable headset.

To connect the headset, open the rubber cover on the side of the handset, then insert the headset's plug into the jack.

Notes:

- Connecting a headset disconnects the handset's earpiece and microphone.
- **VOL/CID** ▲ or ▼ on the handset also controls the connected headset's volume.
- If you place the handset on the base to recharge it while the headset is connected, be sure the handset seats properly.

With a headset connected, you can make or answer calls as usual using the speakerphone or the keys on the handset.

You can use a handset holder (available from your local RadioShack store) to hang the handset on your belt for greater convenience.

When you finish using the headset, disconnect it from the handset and close the rubber cover to protect the jack.

❒ Caller ID Operation

If you subscribe to Caller ID service from your phone company, the phone company sends information about the call, as well as the time and date, between the first and second rings of every call you receive.

The phone displays this information after the second ring, and it stores up to 50 Caller ID records for later review. It also shows if caller information is unavailable or if the name and number were blocked by the caller (see “Caller ID Messages” on Page 23).

If the phone’s Caller ID memory becomes full, any new call replaces the oldest call’s record.

If you subscribe to Call Waiting with Caller ID, you will hear a tone through the handset when a call comes in, then the Caller ID record appears. If you want to answer the incoming call, press **FLASH**. To resume the previous phone conversation, press **FLASH** again.

Note: When you are using the speakerphone, the call waiting tone sounds from the base’s speaker and the handset’s display shows the Caller ID information when the second call comes in. You can press **FLASH** on the base to alternate between calls.

CALL WAITING OPTIONS SERVICE

You can also subscribe to Call Waiting Options Service from your phone company. This service provides you with more choices on how to handle a second call when you are already on the phone. You can switch between the callers, have a 3-way conference call with both callers, send the second caller to your voice mail, or answer the second caller with a prerecorded message to hold the line.

Before you can use the Call Waiting Options Services, you must:

- subscribe to the Options service from your telephone company.
- set the Caller ID/Call Waiting feature to Opt (see “Turning Caller ID/Call Waiting On/Off” on Page 13).

Using Call Waiting Options

Note: The phone beeps five times and exits the menu mode if you wait more than 20 seconds between each keypress.

You hear a soft beep when a call comes in while you are already on the phone. The display shows the caller name and phone number.

Follow these steps to use Call Waiting Options Services.

1. Press **MENU**. A list of several options, beginning with **Ask to Hold** appears.
2. Repeatedly press **VOL/CID** ▼ to scroll through the options list. You can also press the number of the desired option.
3. Choose one of the following options, then press **SELECT/INTCM**.

Ask to Hold — A waiting caller hears a prerecorded message stating that you will be available shortly, and is put on hold. **Call Holding** appears on your phone.

Tell Busy — A prerecorded message indicates you are busy, and the waiting call is disconnected. **Told Busy** appears on your phone.

Take Message — Send a waiting caller to your phone company’s voice mail service. **To Voice Mail** appears on your phone.

Note: Voice Mail is a service available from some telephone companies. A call for a subscriber can be kept at the telephone company and retrieved later on by calling the special number and entering the caller's phone number and code number. Check with your telephone company to determine if this service is available.

Answer/Drop 1 — Disconnects the first call, and connects automatically to the new caller. **Answer/Drop 1st** appears.

Conference — Allows you to speak with your first and second callers to have a 3-way conference call. **Conferenced** appears.

Drop First and Drop Last are options you can only use with a conference call (see "Using Conference").

Using Ask to Hold

When you select **Ask to Hold**, you can then use several of the other options.

1. If you decide you cannot end your first call, and you do not want to continue to leave the second call on hold, press **MENU**.

   To notify the second caller that you are busy, scroll down to **Tell Busy** or press **2**.

   To send the second caller to voice mail (if you have voice mail), scroll down to **Take Message** or press **3**.

   Press **SELECT/INTCM**.

2. If you decide to take the second call, and end the first, scroll down to **Answer/ Drop 1** or press **4**.

   Press **SELECT/INTCM**.

3. If you decide to include the second caller in your conversation with the first caller, scroll down to **Conference** or press **5**.

   Press **SELECT/INTCM**.

Using Conference

You can either begin a conference call as soon as you receive a second call, or after the second caller has been on hold for a while (see "Using Ask to Hold").

Once you have established a conference call, you can end it at any time by dropping one of the calls.

Drop First — hang up on the first caller and continue with the second.

Drop Last — hang up on the second caller and continue with the first.

Follow these steps to drop one of the calls.

1. To end a conference call, press **MENU**.
2. Scroll down to **Drop First** (or press **6**) or **Drop Last** (or press **7**) to drop the desired call.
3. Press **SELECT/INTCM**. **Call Dropped** appears on your phone.

REVIEWING CALLER ID RECORDS

If the handset is faceup on the base, it shows the number of new Caller ID records, if any, and the total number of records.

To review the contents of each Caller ID record, lift the handset and press **CID** to recall the number of records on the display.

Then, repeatedly press **VOL/CID** ▼ to scroll through the Caller ID records from the newest to the oldest, or **VOL/CID** ▲ to scroll back through the records. To scroll quickly through the records, hold down **VOL/CID** ▲ or ▼.

When you scroll past the last record, total record number appears, then the first record.

When you scroll past the first record, the total record number appears, then the last record.

The top line of each record shows the date, time and the number of calls from that number. The second line shows the caller's name, and the third line shows the caller's phone number.

To exit the Caller ID record display, press CID.

Caller ID Messages

Display	Description
New: XX **Total:XX**	Shows the number of new Caller ID records (records you have not reviewed) and the total number of records.
Private Name or **Private Number**	The caller has blocked the Caller ID information.
Unknown Name or **Unknown Number**	The caller is not within a Caller ID service area.
Incomplete Data	Appears if there was an error during transmission of Caller ID information. Occasional errors are normal. If the phone frequently displays **Incomplete Data**, contact your local phone company or RadioShack store.

ADDING/DELETING THE AREA CODE

When the area code of the received call is the same as the one you stored (see "Storing Your Area Code" on Page 14), the caller ID record does not show the area code. If it is different, the record shows the area code. However, you can add or delete the area code on the display. When the record is on the display, press **3** to add or delete the area code. Pressing **3** again deletes or adds the area code.

When you dial the number or store it into memory, the phone dials or stores the number as it appears on the display.

DIALING NUMBERS FROM A CALLER ID RECORD

To dial a local number stored in a Caller ID record, recall the record, then press **TALK**. If it is a long distance call, press **1** (**1** appears before the displayed number) before you press **TALK**. If you want to add or delete the area code, press **3** before you press **TALK**.

Note: If a Caller ID record does not contain a phone number (if it was blocked by the caller, for example) you cannot dial from that record.

STORING A CALLER ID RECORD TO MEMORY

Follow these steps to store the name and number from a Caller ID record into a memory location.

1. Press **CID** then **VOL/CID** ▲ or ▼ to recall the record you want to store.

   If it is a long distance number, press **1**.

   If you want to add or delete the area code, press **3**.

2. Press **MEM**. **Select Location** appears.

3. Choose a memory location (01–20) by pressing a number or by repeatedly pressing **VOL/CID** ▲ or ▼, then press **SELECT/INTCM**.

If the selected location is empty, the phone beeps to confirm that it stored the number, then the Caller ID record appears.

If a record exists in the selected location, **Replace Memory?** appears, prompting you to confirm the replacement. Move the cursor to **Yes** or **No**, then press **SELECT/INTCM**.

DELETING CALLER ID RECORDS

You can delete Caller ID records individually or all at once.

Follow these steps to delete a single Caller ID record.

1. Press **CID** then **VOL/CID** ▲ or ▼ to recall the record you want to delete.
2. Press **DELETE/CH**. **Delete Message?** appears, prompting you to confirm the deletion.
3. Press **VOL/CID** ▲ to move the cursor to **Yes**, then press **SELECT/INTCM** or **DELETE/CH**. The phone beeps once indicating that the record was deleted.

Deleting All Caller ID Records

Follow these steps to delete all Caller ID records.

1. Press **CID** so the record totals appear.
2. Press **DELETE/CH**. **Delete All?** appears, prompting you to confirm the deletion.
3. Press **VOL/CID** ▲ to move the cursor to **Yes**, then press **SELECT/INTCM** or **DELETE/CH**. The phone beeps once and **Total:00** appears indicating that all Caller ID records were deleted.

❒ *Troubleshooting*

We do not expect you to have any problems with your phone, but if you do, these suggestions might help.

Problem	Suggestion
The phone does not work or works poorly.	Be sure the base's phone line cord and AC adapter are correctly and securely connected.
	Be sure the battery pack in the handset is connected and charged.
	Return the handset to the base for about 5 seconds to reset the security access-protection code.
The handset stops working or works poorly during a call.	Move the handset closer to the base.
	Lift the base's antenna to a fully vertical position.
	Be sure the handset's battery pack is charged. (If the battery pack power is too low, the handset cannot display **Low Battery**.)
Low volume or unusual sounds.	Someone has picked up another phone on the same line. Hang up the other phone.
Dropout or mute.	Keep the handset away from computers, remote control toys, wireless microphones, alarm systems, intercoms, room monitors, fluorescent lights, and electrical appliances.
	Move to another location or turn off the source of interference.
	Press **DELETE/CH** to change the channel.
	Hang up and redial the number.
The phone cannot be operated at a useful distance from the base because the signal becomes weak or noisy (handset's range has decreased).	Be sure neither the handset's nor base's antenna is touching a metal surface.
	Return the handset to the base and recharge the battery pack.
	Lift the base's antenna to a vertical position.
The handset battery pack does not charge.	Check the charging contacts on the handset and base. If they are dirty, clean them with a pencil eraser.
	Be sure the battery pack is connected correctly.
	Be sure the handset is properly seated on the base.
	Replace the battery pack (see "Connecting, Charging, and Replacing the Battery Pack" on Page 11).

Problem	Suggestion
The handset does not ring or receive a page.	Move the handset closer to the base.
	Lift the base's antenna to a vertical position.
	Be sure the battery pack in the handset is connected and charged.
	Move the base away from other electrical devices.
You have an incoming call, but do not receive any Caller ID information.	Let the phone ring twice before you answer so the phone has time to record the Caller ID information.
	Check that the phone is correctly and securely connected.
	Check with your phone company to verify that your Caller ID service is active.

If you still have problems, disconnect the phone. If other phones on the same line work properly, the fault is in this phone or its installation. If you cannot find the problem, take the phone to your local RadioShack store for assistance.

CARE

Keep the phone dry. If it gets wet, wipe it dry immediately. Use and store the phone only in normal temperature environments. Handle the phone gently and carefully. Do not drop it. Keep the phone away from dust and dirt. Wipe the phone with a damp cloth occasionally to keep it looking new.

Modifying or tampering with the phone's internal components can cause a malfunction and might invalidate its warranty and void your FCC authorization to operate it. If your phone is not performing as it should, take it to your local RadioShack store for assistance. If the trouble is affecting the telephone lines, the phone company can ask you to disconnect your phone until you have resolved the problem.

❒ Notes

Limited One-Year Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for one (1) year from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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